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reduced to a fine powder, and well mixed together.

Account of an Electrical Telegraph; by M. Soemmering.

(From Uber Electrischen Telegraphen.)

The author of this invention was led to it by remarking, that the phenomenon of the decomposition of water by the action of metallic points plunged therein, and made to communicate with the poles of a voltaic pile, takes place even when the extent of the circuit, which the electric fluid runs over, is very considerable, such as several thousand feet.

It occurred to him, that by applying to telegraphic communications, this influence, at once so rapid and powerful, which, if it could be substituted for the optical effects which are always suspended by night or in cloudy weather, would have on the principles of the ordinary telegraph unequivocal advantages.

The first attempt fulfilled his expectations.

The apparatus is composed of an ordinary voltaic pile. One-tenth of the disks of zinc and silver are sufficient. It is established by beginning with the zinc, then a moistened piece of felt, and the silver. Thus the pole that gives the hydrogen in the decomposition of the water is below, and the pole of the oxygen is above.

From these two poles proceeded two conducting wires of flexible metal, each terminated by a small brass peg, broad at the top, that it may be taken in the fingers. These pegs are made to be fixed at pleasure in any one of the twenty-seven holes that are bored, vertically towards the extremities of an equal number of small brass cylinders, ranged horizontally beside each other, without touching; along the upper cross piece. Each of these cylinders correspond with a letter of the alphabet, from A to Z, and there are besides three additional signs, which contribute to the precision of the telegraphic language, and complete the number of twenty-seven. The holes in the cylinders, and also the pegs, are made a little conical, in order that the reciprocal contact may be always certain.

Each of the cylinders crosses in its whole thickness the piece that sustains them all, and at the end opposite that which receives the peg a small transverse hole is bored, through which a conducting wire is passed, and the end afterwards twisted. These wires converge, and are of an indefinite length; that is, equal to the distance between the person who composes the telegraphic communication and the person who reads it.

Method of coating Linen Cloth, so as to render it impenetrable to Air and Water.

FROM MAGAZIN DER ERFINDUNGEN.

Boil slowly a quarter of a pound of gum elastic in a pint and a half of boiled linseed oil. When the gum is dissolved add to it about two quarts of boiled oil, one pound of resin, one pound of yellow wax, and as much litharge, and boil the whole together. This mass must be laid on the cloth while yet warm, which retains its flexibility, and may be employed in the place of leather for the pipes of fire engines, especially if the cloth be made of hemp and without seam.

LIST OF NEW PUBLICATIONS.

BIOGRAPHY.

THE Life of a Dissenting Minister; written by himself. With occasional reflections, illustrative of the education and professional state of the Dissenting Clergy, and the character and manners of the Dissenters in general, 5s. 6d.

CHEMISTRY.

View of the progress and present state of Animal Chemistry; by I. J. Berzelius, M.D., £.2 12s. 6d.

DRAMA.

Mustapha; a tragedy, 3s.

Narenski; or, the road to Yaroslaf; a serio-comic opera, in three acts; by Chas. Brown, 2s. 6d.

Free Thoughts upon Actors, Metho-

dists, Actors, and influence of the stage; by Robert Mansel, 7s. 6d.

A Selection from the early Dramatic Writers; containing the tragedy of Doctor Faustus, by Marlowe, No. 1, 2s. 6d.

EDUCATION.

The Parent's Poetical Anthology; being a selection of English poems.

Introduction to Perspective, adapted to the capacities of children, in a series of pleasing familiar dialogues; by Mr. Hayter, 10s. 6d.

The Sunday Scholar's first-book; by Mrs. Hughes, 6d.

HISTORY.

Thoughts on the origin and descent of the Gael; with an account of the Picts, Caledonians, and Scots; and observations relative to the authenticity of the poems of Ossian; by James Grant, Esq. 16s.

JURISPRUDENCE.

The Statutes of the United Kingdom of Great Britain and Ireland, 53d of George III. 1813, Vol. V. £.1 11s. 6d.

A Treatise on the Offence of Libel: with a Disquisition on the Rights, Benefits, and Proper Boundaries of Political Discussion; by John George, of the Middle Temple, Special Pleader, 18s.

A Treatise on Charter Parties of Affreightment, Bills of Lading, and Stoppage in transitu; with an Appendix of precedents; by Edward Lawes, Esq. £1 1s. bds.

MEDICINE AND SURGERY.

Observations on the nature and cure of dropsies; to which is added an appendix containing several cases of Angina Pectoris, with dissections, &c.; by John Blackall, M.D. 10s. 6d.

Facts and Observations relative to the Fever commonly called Puerperal; by John Armstrong, M.D. 8s. 6d. bds.

A Treatise on Glanders; by Thomas Smith, 7s. 6d.

MISCELLANIES.

A Treatise on the Passions and Affections of the Mind, philosophical, ethical, and theological; by Thomas Cogan, M.D. £.2 12s.

Porsonia; or, scraps from Porson's rich Feast, 3s.

Letters from Ortis to Lorenzo; translated from the originals published at Milan in 1802, 8s. 6d. bds.

Proverbs, chiefly taken from the Adagia of Erasmus, with explanations; and further illustrated by corresponding examples from the Spanish, Italian, French, and English languages; by Robert Bland, M.D. 10s. 6d.

An Examination of the different systems of shoeing the feet of horses, particularly the thin-heeled system of the College; by R. Powis, 2s. 6d.

The worth of a Penny; or, a caution to keep money; with the causes of the scarcity, and misery of the want thereof in these hard and merciless times; by Henry Peacham, M.A. Reprinted from the edition of 1667, 7s.

Something concerning Nobody; by Somebody; embellished with 14 characteristic etchings, 9s.

A Picture of Society; or, the Misanthrope, 5s. 6d. bds.

A View of the pleasures arising from a love of books; in letters to a lady; by the Rev. Edward Mangin, M.A. 6s. bds.

Frostiana; or, a History of the River Thames in a frozen state; with an account of the late severe frost, and the wonderful effects of snow, ice, and cold in England, and the different parts of the world, 3s. bds.

NATURAL HISTORY.

Recreations in Natural History; or, Popular Sketches of British Quadrupeds: describing their nature, habits, and dispositions, and interspersed with original anecdotes; embellished with numerous engravings and wood-cuts, from portraits of living animals, painted by the first masters, No. 1, 4s.

NATURAL PHILOSOPHY.

Essay on Light and Vision; by John Bywater.

NOVELS, TALES, AND ROMANCES.

Conscience; by Mrs. Meeke, 4 vols. £.1 4s.

Bachelor's Miseries; by an Old Maid of Distinction, 4 vols. £.1 4s.

Waverley; or, 'Tis sixty years since, 3 vols.

POETRY.

Sir Proteus; a satirical ballad; by P. M. O'Donovan, Esq.

Posthumous Parodies, and other pieces, composed by several of our most celebrated poets, but not published in any edition of their works, 6s. bds.

Ovid in London; in six cantos; by a member of the University of Oxford.

Royalty fog-bound; or, the perils of a night, and the frolics of a fortnight; by Peter Pindar, Esq. 2s.

The prospects of Africa; with other poems; by James Jennings, 5s.

The Corsair; in three cantos; by the Rt. Hon. Lord Byron, 5s. 6d.

Saffie; an Eastern tale; by J. H. Reynolds, 5s. 6d bds.

The Legend of Jona; a metrical romance, with other poems; by W. Patterson, 12s.

Isabel, a tale, in two cantos, and other pieces; by the Hon. Mrs. Erskin, 6s.

POLITICS AND POLITICAL ECONOMY.

An Appeal to the Allies, and to the English nation, on behalf of Poland, 2s.

The Speeches of Dr. Dromgoole, against surrendering the government of the Catholic Church in Ireland, to the discretion of Parliament; accompanied with a Vindication of his celebrated Speech, delivered at a meeting of the Catholic Board, Dec. 18th, 1813.—*Dublin printed.*

Tables of the Parliamentary representation of Great Britain and Ireland, with the patronage and proprietorship of the several counties, cities, and boroughs.

Reflections on the present state of affairs on the Continent, as connected with the question of a general and permanent peace, 2s. 6d.

SERMONS.

Lent Sermons; or, an inquiry into the nature and design of Christ's temptation in the Wilderness; with notes and observations; by the the Rev. Henry Cotes, A.B. 5s.

Semonets addressed to those who have not yet acquired, or who may have lost the inclination to apply the power of attention to compositions of a higher kind; by Henry and Letitia Matilda Hawkins, 7s. 6d. bds.

Primitive Christianity; or discourses on subjects relating to zeal and practice, faith and hope; by the Rev. S. Parker, 4s. 6d.

The Vision of the beloved Disciple; a sermon on the portion of the scripture appointed for the epistle for Trinity Sunday; by the Rev. James Rudge, M.A. 1s. 6d.

The Necessity of Revelation to teach the Doctrine of a future life; by John Kenrick, A.M. 2s.

The Energy of Talent, and the reward of active Virtue and Benevolence; a sermon delivered on the interment of Joseph Dawson, Esq.; by the Rev. Thomas Jervis, 1s.

THEOLOGY.

An Attempt to explain the term Unitarian, occasioned by a note in Dr. Gregory's work on the evidences &c. of the Christian religion, in a letter to that gentleman; by J. Fullager, 2s.

Evidences of revealed religion, on a new and original plan; being an appeal to the Deists on their own principles of argument, 4s.

Copies of Letters sent to the clergy of Exeter, from 1796 to 1800, with communications and prophecies put in the Newspaper in 1813; by Joanna Southcott 1s. 3d.

TOPOGRAPHY.

History and Antiquities of Hawstead, and Hardwick, Suffolk; by the Rev. Sir John Cullam, Bart. Royal 4to. £2 2s. Imp. 4to. £4 4s.

A Picturesque Delineation of the Southern Coast of England, containing Fifty Quarto Plates, and Thirty Vignettes, engraved in the finest line manner, by W. B. Cooke and G. Cooke, from original drawings, taken on the spot, by J. M. W. Turner, R. A. &c. To be published in Sixteen Parts, each containing three large Plates and two Vignettes. Part 1, 12s. 6d.

PROCEEDINGS AT PUBLIC MEETINGS.

THE OPENING OF THE BELFAST ACADEMICAL INSTITUTION.

On the 1st inst. a very numerous meeting was held in the Academical buildings,

The MARQUIS OF DONEGALL in the chair.

When the following address of the joint boards of Managers and Visitors, to the Proprietors, and to the Public at large, was read by Dr. DRENNAN, one of the Visitors, on the opening of the establishment,

My Lord, and Gentlemen,

On the opening of the Belfast Academical Institution, the joint boards of Managers